Walker Water Association 2012 Annual Drinking Water Quality Report

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water, and we want you to understand, and be involved in, the efforts we make to continually improve the water treatment process and protect our water resources.

Where Does Our Drinking Water Come From?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water source is one well that pumps from the Sparta Sands Aquifer. We also purchase treated water from Magnolia Water System whose sources of water are Lake Columbia and four wells that pump from the Sparta Aquifer. Water from Well #10, 11, and 12 is treated at each well site and pumped to Station 3 for distribution. Water from Well #8 is treated at the well site. Water from Lake Columbia is treated at Magnolia's Surface Water Treatment Plant.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed Source Water Vulnerability Assessments for Walker Water Association and Magnolia Water System. The assessments summarize the potential for contamination of our sources of drinking water and can be used as a basis for developing source water protection plans. Based on the various criteria of the assessments, our water sources have been determined to have a low to medium susceptibility to contamination. You may request summaries of the assessments from our office.

What Contaminants Can Be In Our Drinking Water?

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; Inorganic contaminants such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; Pesticides and herbicides which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; Organic chemical contaminants including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; Radioactive contaminants which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to assure tap water is safe to drink, EPA has regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Am I at Risk?

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from small amounts of contamination. These people should seek advice about drinking water from their health care providers. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791. In addition, EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbiological contaminants are also available from the Safe Drinking Water Hotline.

Lead and Drinking Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

We are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

How Can I Learn More About Our Drinking Water?

If you have any questions about this report or concerning your water utility, please contact Michael L. Story, Operator, at 870-299-0283. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the first Monday of each Quarter, at 6:00 PM at the Water Office.

TEST RESULTS

We and Magnolia Water System routinely monitor for constituents in your drinking water according to Federal and State laws. The test results table shows the results of our monitoring for the period of January 1st to December 31st, 2012. In the table you might find terms and abbreviations you are not familiar with. To help you better understand these terms we've provided the following definitions:

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - unenforceable public health goal; the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. NA - not applicable

Nephelometric Turbidity Unit (NTU) - a unit of measurement for the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Parts per billion (ppb) - a unit of measurement for detected levels of contaminants in drinking water. One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per million (ppm) - a unit of measurement for detected levels of contaminants in drinking water. One part per million corresponds to one minute in two years or a single penny in \$10,000.

MICROBIOLOGICAL CONTAMINANTS						
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Total Coliform Bacteria (Walker Water Assn)	N	None	Present	0	1 positive sample per month	Naturally present in the environment
TURBIDITY						
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Turbidity (Magnolia Water System)	N	Highest yearly sample result: 0.16 Lowest monthly % of samples meeting the turbidity limit: 100%	NTU	NA	Any measurement in excess of 1 NTU constitutes a violation A value less than 95% of samples meeting the limit of 0.3 NTU, constitutes a violation	Soil runoff
Turbidity is a measurement of the cloudiness of water. Magnolia Water System monitors it because it is a good in the effectiveness of their filtration system.					it is a good indicator of	

the effectiveness of their filtration system.

INORGANIC CONTAMINANTS						
Contaminants	Violation Y/N	Levels Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Nitrate [as Nitrogen] (Magnolia Water System)	N	0.17	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

LEAD AND COPPER TAP MONITORING						
Contaminant	Number of Sites over Action Level	90 th Percentile Result	Unit	Action Level	Major Sources in Drinking Water	
Lead (Walker Water Assn)	0	<0.003	ppm	0.015	Corrosion from household plumbing	
Copper (Walker Water Assn)	0	<0.20	ppm	1.3	systems; erosion of natural deposits	

We are currently on a reduced monitoring schedule and required to sample once every three years for lead and copper at the
customers' taps. The results above are from our last monitoring period in 2011. Our next required monitoring period is in
2014.

TOTAL ORGANIC CARBON

• The percentage of Total Organic Carbon (TOC) removal was routinely monitored by Magnolia Water System in 2012, and all TOC removal requirements set by USEPA were met. TOC has no health effects. However, Total Organic Carbon provides a medium for the formation of disinfection by-products. These by-products include trihalomethanes (THMs) and haloacetic acids (HAAs).

REGULATED DISINFECTANTS Major Sources in Drinking Violation MRDLG MRDL Disinfectant **Level Detected** Unit (Public Health Goal) (Allowable Level) Y/N Water Average: 0.43 Water additive used to control Chlorine Ν ppm (Walker Water Assn) Range: 0.20 - 1.0 microhes

BY-PRODUCTS OF DRINKING WATER DISINFECTION Violation **MCLG** MCL Contaminant **Level Detected** Unit (Public Health Goal) (Allowable Level) Y/N HAA5 [Haloacetic Acids] Average: 15.6 Ν 0 60 ppb Range: 0 - 29.7 (Walker Water Assn) TTHM [Total Trihalomethanes] Average: 10.22 N NA 80 ppb (Walker Water Assn) Range: 0 - 62 The results above are from our last compliance monitoring period was in the spring quarter of 2012.

Chlorite (Magnolia Water System) N Range: 20 - 585 Ppb 800 1000

UNREGULATED CONTAMINANTS

Contaminant	Level Detected	Unit	MCLG (Public Health Goal)	Major Sources in Drinking Water	
Chloroform (Magnolia Water System)	Average: 25.6 Range: 5.20 - 37.3	ppb	70		
Bromodichloromethane (Magnolia Water System)	Average: 16.1 Range: 8.16 - 21.2	ppb 0		Dr. products of dripling water disinfection	
Dibromochloromethane (Magnolia Water System)	Average: 8.94 Range: 8.04 – 10.2	ppb	60	By-products of drinking water disinfection	
Bromoform (Magnolia Water System)	Average: 1.40 Range: 0.76 - 2.49	ppb	0		

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of
unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking
water and whether future regulation is warranted. MCLs (Maximum Contaminant Levels) and MCLGs (Maximum
Contaminant Level Goals) have not been established for all unregulated contaminants.

VIOLATIONS - Walker Water Association						
TYPE: Public Education	FROM:	TO:	CORRECTIVE ACTION:			
Public Education – Failed to provide Public						
Education Notice regarding elevated lead and	3/9/2012	Current	None taken at this time			
copper levels						
TYPE: Licensing						
	6/1/2012	Current				
State licensing regulations were not met	8/1/2012		Water system operator is attempting to			
	10/1/2012		obtained license in order to become compliant with state regulations			
No qualified operator	11/1/2012					
ino qualified operator	12/1/2012					
TYPE: Annual Drinking Water Quality Repo	ort					
Consumer Confidence Report (CCR) - Failure			Provided the state with certification of			
to provide the state with certification of	10/1/2012	11/7/2012	distribution of the annual water quality			
distribution of the annual water quality report			report			
TYPE: Distribution Monitoring						
Distribution chlorine (disinfectant) residual	12/1/2012	12/21/2012	Resumed monitoring chlorine residual in			
not monitored	12/1/2012	12/31/2012	distribution system			

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